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Work Order ID 159413***159413***

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Tuesday, April 11, 2017 8:34:37 AM

Item ID: D066-1016-011 **Accept** ***N900040100*** **Setup** **Start** ***NS1***
Revision ID: **Stop** ***NS2***
Item Name: R66 Heli-Utility-Basket™ - LH side
Start Date: 5/19/2017 **Start Qty:** 1.00 ***1*** **Cust Item ID:**
Required Date: 6/1/2017 **Req'd Qty:** 1.00 ***1*** **Customer:**
Reference: SCHEDULED/S

Approvals: **Process Plan:**  **Date:** APR 19 2017 **Tooling:** **Date:** **Run** **Start** ***NR1***
QC: **Date:** **SPC (Y/N):** **Date:** **Stop** ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D066-1016	B								
100	Document Control								
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP D066-1016-011 CHG001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.03							
Quality Control									

DAS
6
9-89

MAY 15 2017

DAS
27
9-89

MAY 17 2017

DAS
6
9-89DAS
28
9-89DAS
27
9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY																																																																																																																											
Environment	☐	Design	☐	Doc/Data	☐	Equip/Tooling	☐	Handling/Pre	☐	Material	☐	Internal Transport	☐	Tribal Knowledge	☐	LOA	☐	Substation	☐	Past Expiry Date	☐	Misidentified	☐	No Re-verification	☐	Operator	☐	Offset/Setup	☐	Supplier	☐	Training	☐	Use for Testing	☐	Poor Information	☐	Rushing	☐	Product Improvement	☐	Process Improvement	☐	Manufacturing Process	☐	Past Due	☐	Pressure/Forced	☐	Bending	☐	Centre Not Concentric	☐	Cracks	☐	Crimp/Kink/Ripple/Wave	☐	Cuffs	☐	Crushing	☐	Heat Treat	☐	Wave/Twist in Tube	☐	Marks/Chatter	☐	Temperature/Cure	☐	Set-up	☐	BOM/Route	☐	Broken/Damage/Defect	☐	Inspection Incomplete/Unqualified	☐	Contamination	☐	Countersink	☐	Cut Too Short	☐	Instructions Incomplete/Unclear	☐	Drill Holes	☐	Power Loss/Surge	☐	Folio/Program	☐	Grain	☐	Weld	☐	Wrong Stock Pulled	☐	Out of Sequence	☐	Off-set	☐	Mislabeled	☐	Fit/Function	☐	Misaligned/off center	☐	Positioned Wrong	☐	Outside Dimensions	☐	Over/Under tolerance	☐	Part Incorrect	☐	Part Lost/Missing	☐	Part Moved	☐	Drawing	☐	Finish	☐	Misread	☐	Turning Sequence	☐
OTHER :																																																																																																																															

159413

Item ID: D066-1016-011
Revision ID:
Item Name: R66 Heli-Utility-Basket™ - LH side
Start Date: 5/19/2017 Start Qty: 1.00
Required Date: 6/1/2017 Req'd Qty: 1.00
Reference: SCHEDULED/S
Approvals: Process Plan: Date: Tooling: SPC (Y/N): Date: QC: Run Start Stop *NR1* *NR2*
Cust Item ID: Customer: *1* *1*

Sequence ID/ Work Center ID
Operation Description
Set Up/ Run Hours
Tool ID
Tool #
Plan Code
Accept Qty
Reject Qty
Reject Number
Insp. Stamp
Run Start Stop *NR1* *NR2*

130

Packaging
Packaging

Memo
Identify and pack for shipping as per PPP D066-1016-011
Location: 59

140

QC

Quality Control

QC21 - Final Inspection - Work Order Release

0.00

0.10

U 17.5.17

17/5/19

MAY 18 2017

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DAS

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Tuesday, April 11, 2017 8:34:37 AM

Page 1
T

Work Order ID: 159413

159413

Parent Item: D066-1016-011

D066-1016-011

Parent Item Name: R66 Heli-Utility-Basket™ - LH side

Start Date: 5/19/2017

Required Date: 6/1/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 16.01.14 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D066-1016-115 *D066-1016-115* R66 Basket Mounting Provision		Manufactured	No			110	Each	0.0000	1	1			
D5337-011 *D5337-011* Basket Assembly, LH		Manufactured	No			110	Each	0.0000	1	1			
D5357-041 *D5357-041* Strut Assembly		Manufactured	No			110	Each	0.0000	1	1			

**

159411

MAY 17 2017

**

159432

MAY 15 2017

**

160579

MAY 17 2017

DAS
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9-89

DAS
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DAS
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DAS
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9-89
DAS
6
9-89
DAS
62
9-89

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By																																																							
								Lead hand / Supervisor Approval Verification																																																							
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Root Cause		FAULT CATEGORY																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :	
Misidentified ☐	Past Due ☐																																																														

5.0 PARTS LIST

Qty -011	Qty -012	Qty -111	Qty -113	Qty -115	Qty -121	Qty -123	Part Number	Description
X							D066-1016-011	R66 QR HELI-UTILITY-BASKET, LH
	X						D066-1016-012	R66 QR HELI-UTILITY-BASKET, RH
		X					D066-1016-111	CROSSTUBE CLAMP KIT
			X				D066-1016-113	CROSSTUBE CLAMP + LONGITUDINAL BEAM KIT
1	1			X			D066-1016-115	BASKET MOUNTING PROVISIONS KIT
					X		D066-1016-121	FWD LID GAS SPRING UPGRADE (OPTIONAL)
						X	D066-1016-123	FWD FIXED STEP UPGRADE (OPTIONAL)
1							D5337-011	BASKET ASSEMBLY, LH
	1						D5337-012	BASKET ASSEMBLY, RH
					2		D3953-17	GAS SPRING SPACER
					1		D3953-19	GAS SPRING BRACKET
					1		D3953-21	GAS SPRING BRACKET
					2		D3953-3	GAS SPRING STUD
					2		D3953-7	GAS SPRING SPACER
					2		D3953-9	GAS SPRING WASHER
					1		D3969-7	GAS SPRING
				1			D5350-041	R66 FWD CROSS BEAM ASSEMBLY
				1			D5350-043	R66 AFT CROSS BEAM ASSEMBLY
		4	4	4			D5352-1	CUSHION
		1	1	1			D5354-041	R66 FWD CLAMP ASSEMBLY, LH
		1	1	1			D5354-042	R66 FWD CLAMP ASSEMBLY, RH
		2	2	2			D5355-041	R66 AFT CLAMP ASSEMBLY
1	1						D5357-041	STRUT ASSEMBLY
		2	2	2			D5358-1	COVER PLATE
			1	1			D5445-041	LONGITUDINAL BEAM ASSEMBLY, LH
			1	1			D5445-042	LONGITUDINAL BEAM ASSEMBLY, RH
						1	D5510-041	FWD STEP
					2		AN310C4	NUT, CASTELLATED
					4		AN3-14A	BOLT
			8	8			AN4-12A	BOLT
						2	AN4-14A	BOLT
				4			MS20392-4C57	PIN
					4		MS21042L3	NUT
						2	MS21042L4	NUT
				4			MS24665-229	COTTER PIN
					2		MS24665-300	COTTER PIN
		8	8	8			MS27151-7	STAMPED NUT
					2		NAS1149C0432R	WASHER
			8	8		4	NAS1149D0463J	WASHER
				4			NAS1149F0563P	WASHER
					8		NAS1149F0332P	WASHER

Work Order ID 159413

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159413

Page 1

Item ID: D066-1016-011

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: R66 Heli-Utility-Basket™ - LH side

Start Date: 5/19/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/1/2017 Req'd Qty: 1.00

1

Customer:

Reference: SCHEDULED/S

Approvals:

Process Plan:

Date: APR 19 2017

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

IIN-D066-1016

B

100

Document Control

DOCUMENT CONTROL

100

DC

MAY 15 2017

Doc.Control -USB or Paperwork

Memo

0.00

Photocopy bluefile & type labels per PPP D066-1016-011 CHG001

OB

MAY 15 2017

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.03

Quality Control



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH17-7

Issue No.: 1

Approval Date: March 17, 2017

Issue Date: March 17, 2017

Responsible Office: Prairie and Northern
Aircraft/Engine Type or Model: Robinson R66
Canadian Type Certificate or Equivalent: H-111

Description of Type Design Change: Heli-Utility-Basket

**Installation/Operating Data,
Required Equipment and Limitations:**

Installation of the Heli-Utility-Basket must be in accordance with Transport Canada Civil Aviation (TCCA) approved Dart Aerospace Ltd. Installation Instructions IIN-D066-1016 Revision B, dated February 20, 2017 or later TCCA approved revision.

Maintenance of the Heli-Utility-Basket must be in accordance with TCCA accepted Dart Aerospace Ltd. Instructions for Continued Airworthiness ICA-D066-1016 Revision 0, dated February 20, 2017 or later TCCA accepted revision.

Operation of the Heli-Utility-Basket must be in accordance with TCCA approved Dart Aerospace Ltd Flight Manual Supplement FMS-D066-1016 Revision A, dated February 13, 2017 or later TCCA approved revision.

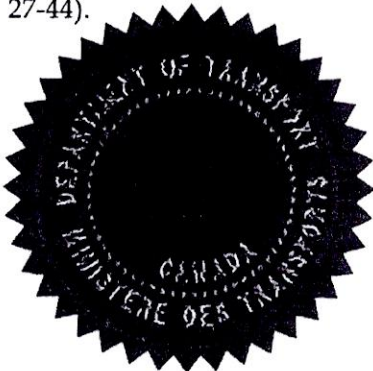
Definition of the Type Design Change:

TCCA approved Dart Aerospace Ltd. Master Document List MDL-D066-1016 Revision A, dated February 28, 2017 or later TCCA approved revision.

Basis of Certification for affected areas:

AWM 527, Change 527-8 dated June 30, 2009 (equivalent to 14 CFR Part 27 Amendment 27-1 through 27-44).

— End —



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Loy Y. Liew
For Minister of Transport

Canada